

| |
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\\User

Head

Epilepsy

sola_xa61_Brain_ms

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\\User\Head\Epilepsy\sola_xa61_Brain_ms\loc_3Plane_HASTE *

TA: 12 sec Coil Selection: Auto Voxel Size: 0.9×0.9×5.0 mm³ Acc.: None Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Contrast - Common

| | |
|--------------------|----------------|
| Flip Angle 1 | 160 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Fat Saturation |
| Fat Saturation | Strong |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Routine

| | |
|---------------------|-----------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 240 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 5.0 mm |
| TR | 1550.0 ms |
| TE | 67.00 ms |
| Averages | 1 |
| Concatenations | 3 |
| AutoAlign | --- |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 240 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 90 % |
| Interpolation | 1.00 |

Resolution - Acceleration

| | |
|-----------------------|------|
| Acceleration Mode | None |
| Deep Resolve | Off |
| Phase Partial Fourier | 4/8 |

Resolution - Filter

| | |
|-----------------------|-----|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Off |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|-----------|
| Slice Group | 1 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Slices | 3 |
| Distance Factor | 100 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 3 |
| Slices | 3 |
| Distance Factor | 100 % |

Contrast - Common

| | |
|-------------------|-----------|
| TR | 1550.0 ms |
| TE | 67.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle Mode | Constant |

Geometry - Common

| | |
|---------------------|-------------|
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 240 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 5.0 mm |
| TR | 1550.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 3 |

Geometry - AutoAlign

| | |
|---------------------|-----------|
| Slice Group | 1 |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 3 |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 0.0 mm |
| Initial Orientation | Sagittal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table Position | 0 mm |
| Table Position | H |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-----------|
| Position | Isocenter |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 240 mm |
| F >> H | 240 mm |
| R >> L | 240 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1550.0 ms |
| Concatenations | 3 |

Physio - Cardiac

| | |
|--------------------|----------------|
| Fat-Water Contrast | Fat Saturation |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 240 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 90 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 3 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |

Inline - MIP

| | |
|----------------------|-----|
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 195 Hz/Px |
| Echo Spacing | 7.46 ms |
| Turbo Factor | 230 |

Sequence - Part 2

| | |
|-------------------|------|
| Introduction | On |
| Motion Correction | None |

Sequence - Assistant

| | |
|----------------|------------------------------------|
| SAR Assistant | TR > Flip Angle > RF Pulse Type |
| Min Flip Angle | 140 deg |
| Max. TR | 1700.0 ms |
| Allowed Delay | 40 s |

\\User\Head\Epilepsy\isola_xa61_Brain_mslt2_qtse_Sagittal_FC *

TA: 2:06 min Coil Selection: Auto Voxel Size: 0.3×0.3×3.0 mm³ Acc:: 3 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 220 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.0 mm |
| Base Resolution | 384 |
| Phase Resolution | 70 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 3 |
| Reference Lines PE | 46 |
| Deep Resolve | On |
| Phase Partial Fourier | Off |

Routine

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 21 |
| Distance Factor | 15 % |
| Position | R3.8 A5.4 H24.0 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 100 % |
| FOV Read | 220 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.0 mm |
| TR | 3000.0 ms |
| TE | 85.00 ms |
| Averages | 2 |
| Concatenations | 2 |
| AutoAlign | --- |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 21 |
| Distance Factor | 15 % |
| Position | R3.8 A5.4 H24.0 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 100 % |
| FOV Read | 220 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.0 mm |
| TR | 3000.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 2 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 3000.0 ms |
| TE | 85.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 150 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Position | R3.8 A5.4 H24.0 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R3.8 A5.4 H24.0 |
| R | 3.8 mm |
| A | 5.4 mm |
| H | 24.0 mm |
| Initial Orientation | Sagittal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table Position | 0 mm |
| Table Position | H |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|--------------------|
| Position | R3.8 A5.4 H24.0 mm |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 220 mm |
| F >> H | 220 mm |
| R >> L | 72 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 3000.0 ms |
| Concatenations | 2 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |

Physio - Cardiac

| | |
|-------------------|---------|
| FOV Read | 220 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 70 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 2 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | qtseR_rr |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Normal |
| Flow Compensation | Read |
| Bandwidth | 161 Hz/Px |
| Echo Spacing | 12.1 ms |
| Free Echo Spacing | On |
| Define | Turbo Factor |
| Turbo Factor | 21 |
| Echo Trains per Slice | 10 |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Introduction | Off |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| Fast Mode | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | On |
| Reduce Motion Sens. | On |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_ms\T1_3D sag *

TA: 4:31 min Coil Selection: Auto Voxel Size: 0.5×0.5×0.5 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 50 % |
| Position | R5.9 P27.2 H7.2 mm |
| Orientation | S > C6.8 > T-2.2 |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 352 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 0.0 % |
| FOV Read | 256 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.50 mm |
| TR | 1950.0 ms |
| TE | 3.25 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-------------|
| TR | 1950.0 ms |
| TE | 3.25 ms |
| Magn. Preparation | Non-sel. IR |
| TI | 1100 ms |
| Flip Angle | 9 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| Reordering | Linear |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 256 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.50 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Slice Resolution | 50 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Allowed |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 50 % |
| Position | R5.9 P27.2 H7.2 mm |
| Orientation | S > C6.8 > T-2.2 |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 352 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 0.0 % |
| FOV Read | 256 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.50 mm |
| TR | 1950.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Position | R5.9 P27.2 H7.2 mm |
| Orientation | S > C6.8 > T-2.2 |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |

Geometry - AutoAlign

| | |
|---------------------|-----------------|
| Initial Position | R5.9 P27.2 H7.2 |
| R | 5.9 mm |
| P | 27.2 mm |
| H | 7.2 mm |
| Initial Orientation | S > C |
| S > C | 6.80 |
| > T | -2.20 |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Tim Planning Suite**

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table Position | 7 mm |
| Table Position | H |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|--------------------|
| Position | R5.9 P27.2 H7.2 mm |
| Orientation | S > C6.8 > T-2.2 |
| Rotation | 0.00 deg |
| A >> P | 256 mm |
| F >> H | 256 mm |
| R >> L | 176 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|------|
| 1st Signal/Mode | None |
|-----------------|------|

Physio - Signal

| | |
|----------------|-----------|
| TR | 1950.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|-------------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | Non-sel. IR |
| TI | 1100 ms |
| Dark Blood | Off |
| FOV Read | 256 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 100 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Inline - MapIt

| | |
|----------------------|-----------|
| MapIt | None |
| Flip Angle | 9 deg |
| Measurements | 1 |
| Contrasts | 1 |
| TE | 3.25 ms |
| TR | 1950.0 ms |
| Save Original Images | On |

Sequence - Part 1

| | |
|-------------------|----------|
| Sequence Name | tfl |
| Dimension | 3D |
| Excitation | Non-sel. |
| RF Pulse Type | Normal |
| Gradient Mode | Whisper |
| Flow Compensation | None |
| Reordering | Linear |

Sequence - Part 1

| | |
|-----------------|-----------|
| Bandwidth | 130 Hz/Px |
| Echo Spacing | 9.58 ms |
| Asymmetric Echo | Allowed |
| Turbo Factor | 176 |

Sequence - Part 2

| | |
|-------------------------|------|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_space_FLAIR_sag_cs4_0.9_iso *

TA: 3:52 min Coil Selection: Auto Voxel Size: 0.9×0.9×0.9 mm³ Acc:: 4.0 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| Reordering | Linear |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 240 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.94 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Slice Resolution | 96 % |
| Interpolation | Off |

Routine

| | |
|---------------------|-------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Position | R4.5 P0.4 H5.5 mm |
| Orientation | S > T6.7 > C-1.7 |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 176 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 9.1 % |
| FOV Read | 240 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.94 mm |
| TR | 5000.0 ms |
| TE | 389.00 ms |
| Averages | 1.0 |
| Concatenations | 1 |
| AutoAlign | --- |

Resolution - Acceleration

| | |
|-----------------------|------------|
| Acceleration Mode | CS |
| Total Factor | 4.0 |
| Reference Scans | Integrated |
| Reference Lines PE | 24 |
| Reference Lines 3D | 24 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Elliptical Scanning | On |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | On |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | On |

Contrast - Common

| | |
|--------------------|----------------------|
| TR | 5000.0 ms |
| TE | 389.00 ms |
| MTC | On |
| Magn. Preparation | Non-sel. T2 prep. IR |
| TI | 1650 ms |
| T2 Prep. Duration | 125 ms |
| Flip Angle Mode | T2 Var |
| Flip Angle 1 | 120 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Fat Saturation |
| Fat Saturation | Strong |
| Dark Blood | Off |
| Blood Suppression | Off |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Geometry - Common

| | |
|---------------------|-------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Position | R4.5 P0.4 H5.5 mm |
| Orientation | S > T6.7 > C-1.7 |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 176 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 9.1 % |
| FOV Read | 240 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.94 mm |
| TR | 5000.0 ms |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|-------------|-------------------|
| Slab Group | 1 |
| Position | R4.5 P0.4 H5.5 mm |
| Orientation | S > T6.7 > C-1.7 |

Geometry - AutoAlign

| | |
|---------------------|----------------|
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R4.5 P0.4 H5.5 |
| R | 4.5 mm |
| P | 0.4 mm |
| H | 5.5 mm |
| Initial Orientation | S > T |
| S > T | 6.70 |
| > C | -1.70 |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table Position | 6 mm |
| Table Position | H |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Performance |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------------|
| Position | R4.5 P0.4 H5.5 mm |
| Orientation | S > T6.7 > C-1.7 |
| Rotation | 0.00 deg |
| A >> P | 240 mm |
| F >> H | 240 mm |
| R >> L | 166 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |

System - Tx/Rx

| | |
|---------------|-------|
| Reset | Off |
| Image Scaling | 4.000 |
| Gain | High |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| Trigger Delay | 0 ms |
| TR | 5000.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------------------|
| Fat-Water Contrast | Fat Saturation |
| Magn. Preparation | Non-sel. T2 prep. IR |
| TI | 1650 ms |
| T2 Prep. Duration | 125 ms |
| Dark Blood | Off |
| FOV Read | 240 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 100 % |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | spcir |
| Dimension | 3D |
| Excitation | Non-sel. |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Reordering | Linear |
| Bandwidth | 698 Hz/Px |
| Echo Spacing | 3.44 ms |

Sequence - Part 1

| | |
|---------------------|--------|
| Turbo Factor | 225 |
| Echo Train Duration | 771 ms |

Sequence - Part 2

| | |
|--------------|----|
| Introduction | On |
|--------------|----|

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_ms\T2_qtse_tra *

TA: 1:46 min Coil Selection: Auto Voxel Size: 0.3×0.3×4.0 mm³ Acc:: 3 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Resolution - Common

| | |
|------------------|--------|
| FOV Read | 230 mm |
| FOV Phase | 90.6 % |
| Slice Thickness | 4.0 mm |
| Base Resolution | 448 |
| Phase Resolution | 75 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 3 |
| Reference Lines PE | 33 |
| Deep Resolve | On |
| Phase Partial Fourier | Off |

Routine

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 28 |
| Distance Factor | 25 % |
| Position | R2.9 P13.6 F0.8 mm |
| Orientation | T > C-4.0 > S-2.0 |
| Phase Encoding Dir. | R >> L |
| Phase Oversampling | 100 % |
| FOV Read | 230 mm |
| FOV Phase | 90.6 % |
| Slice Thickness | 4.0 mm |
| TR | 6550.0 ms |
| TE | 100.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 28 |
| Distance Factor | 25 % |
| Position | R2.9 P13.6 F0.8 mm |
| Orientation | T > C-4.0 > S-2.0 |
| Phase Encoding Dir. | R >> L |
| Phase Oversampling | 100 % |
| FOV Read | 230 mm |
| FOV Phase | 90.6 % |
| Slice Thickness | 4.0 mm |
| TR | 6550.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 6550.0 ms |
| TE | 100.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 150 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Position | R2.9 P13.6 F0.8 mm |
| Orientation | T > C-4.0 > S-2.0 |
| Phase Encoding Dir. | R >> L |
| AutoAlign | --- |
| Initial Position | R2.9 P13.6 F0.8 |
| R | 2.9 mm |
| P | 13.6 mm |
| F | 0.8 mm |
| Initial Orientation | T > C |
| T > C | -4.00 |

Geometry - AutoAlign

| | |
|------------------|-----------|
| > S | -2.00 |
| Initial Rotation | 90.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table Position | 1 mm |
| Table Position | F |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 6550.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 230 mm |
| FOV Phase | 90.6 % |
| Phase Resolution | 75 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | qtse |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Normal |
| Flow Compensation | None |
| Bandwidth | 130 Hz/Px |
| Echo Spacing | 12.4 ms |
| Free Echo Spacing | On |
| Define | Turbo Factor |
| Turbo Factor | 15 |
| Echo Trains per Slice | 15 |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| Fast Mode | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | On |

Sequence - Part 2

| | |
|---------------------|------|
| Reduce Motion Sens. | Off |
| Motion Correction | None |

Sequence - Assistant

| | |
|----------------|------------------------------------|
| SAR Assistant | Flip Angle > TR > RF Pulse Type |
| Min Flip Angle | 130 deg |
| Max. TR | 7500.0 ms |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_qswi3d_tra_p2_2.0mm brain *

TA: 4:17 min Coil Selection: Auto Voxel Size: 0.4x0.4x2.0 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | L9.2 P6.4 H28.5 mm |
| Orientation | T > C9.1 > S1.8 |
| Phase Encoding Dir. | R >> L |
| Slices per Slab | 72 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 0.0 % |
| FOV Read | 230 mm |
| FOV Phase | 81.3 % |
| Slice Thickness | 2.00 mm |
| TR | 48.0 ms |
| TE | 40.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-------------|
| TR | 48.0 ms |
| TE | 40.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 15 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| SWI | On |
| Reconstruction | Magn./Phase |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 230 mm |
| FOV Phase | 81.3 % |
| Slice Thickness | 2.00 mm |
| Base Resolution | 256 |
| Phase Resolution | 79 % |
| Slice Resolution | 78 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Off |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 20 % |
| Position | L9.2 P6.4 H28.5 mm |
| Orientation | T > C9.1 > S1.8 |
| Phase Encoding Dir. | R >> L |
| Slices per Slab | 72 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 0.0 % |
| FOV Read | 230 mm |
| FOV Phase | 81.3 % |
| Slice Thickness | 2.00 mm |
| TR | 48.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slab Group | 1 |
| Position | L9.2 P6.4 H28.5 mm |
| Orientation | T > C9.1 > S1.8 |
| Phase Encoding Dir. | R >> L |
| AutoAlign | --- |

Geometry - AutoAlign

| | |
|---------------------|-----------------|
| Initial Position | L9.2 P6.4 H28.5 |
| L | 9.2 mm |
| P | 6.4 mm |
| H | 28.5 mm |
| Initial Orientation | T > C |
| T > C | 9.10 |
| > S | 1.80 |
| Initial Rotation | 90.00 deg |

Geometry - Saturation

| | |
|--------------------|----------|
| Saturation Mode | Standard |
| Special Saturation | None |

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table Position | 0 mm |
| Table Position | H |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|--------------------|
| Position | L9.2 P6.4 H28.5 mm |
| Orientation | T > C9.1 > S1.8 |
| Rotation | 90.00 deg |
| R >> L | 187 mm |
| A >> P | 230 mm |
| F >> H | 144 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|---------|
| 1st Signal/Mode | None |
| TR | 48.0 ms |
| Segments | 1 |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Tagging | None |
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 230 mm |
| FOV Phase | 81.3 % |
| Phase Resolution | 79 % |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Liver

| | |
|----------------------|-----|
| Liver Registration | Off |
| Save Original Images | On |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Soft Tissue

| | |
|--------------|-----|
| Wash-in | Off |
| Wash-out | Off |
| TTP | Off |
| PEI | Off |
| MIP Time | Off |
| Measurements | 1 |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Inline - MapIt

| | |
|--------------|--------|
| MapIt | None |
| Flip Angle | 15 deg |
| Measurements | 1 |

Inline - MapIt

| | |
|----------------------|----------|
| Contrasts | 1 |
| TE | 40.00 ms |
| TR | 48.0 ms |
| Save Original Images | On |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | qswi_r |
| Dimension | 3D |
| Excitation | Slab-sel. |
| RF Pulse Type | Fast |
| Gradient Mode | Fast |
| Flow Compensation | On |
| Bandwidth | 80 Hz/Px |
| Asymmetric Echo | Off |
| Segments | 1 |

Sequence - Part 2

| | |
|--------------------------|----|
| Introduction | On |
| RF Spoiling | On |
| Acoustic noise reduction | On |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

\\User\Head\Epilepsy\sola_xa61_Brain_ms\resolve_4scan_trace_tra_p2_s2_192 *

TA: 2:17 min Coil Selection: Auto Voxel Size: 0.6×0.6×4.0 mm³ Acc:: 4 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | Off |
| Load Images to Graphic Segments | Off |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 28 |
| Distance Factor | 30 % |
| Position | R1.2 P20.6 H9.7 mm |
| Orientation | T > S-9.1 > C6.8 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 220 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 3090.0 ms |
| TE 1 | 67 ms |
| TE 2 | 112 ms |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|----------------|
| TR | 3090.0 ms |
| TE 1 | 67 ms |
| TE 2 | 112 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle | 180 deg |
| Fat-Water Contrast | Fat Saturation |
| Fat Saturation | Strong |
| Contrasts | 2 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|--------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |

Resolution - Common

| | |
|----------|--------|
| FOV Read | 220 mm |
|----------|--------|

Resolution - Common

| | |
|------------------|---------|
| FOV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| Base Resolution | 192 |
| Phase Resolution | 100 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|-------------------------|--------------|
| Accel. Mode | SMS |
| Reference Scans | EPI/Separate |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 96 |
| SMS Factor | 2 |
| FOV Shift Factor | 3 |
| Phase Partial Fourier | Off |
| Readout Partial Fourier | 7/8 |
| Readout Segments | 7 |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Noise Masking | Off |

Geometry - Common

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Slices | 28 |
| Distance Factor | 30 % |
| Position | R1.2 P20.6 H9.7 mm |
| Orientation | T > S-9.1 > C6.8 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 220 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 4.0 mm |
| TR | 3090.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|--------------------|
| Slice Group | 1 |
| Position | R1.2 P20.6 H9.7 mm |
| Orientation | T > S-9.1 > C6.8 |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R1.2 P20.6 H9.7 |
| R | 1.2 mm |
| P | 20.6 mm |
| H | 9.7 mm |
| Initial Orientation | T > S |

Geometry - AutoAlign

| | |
|------------------|-----------|
| T > S | -9.10 |
| > C | 6.80 |
| Initial Rotation | -1.70 deg |

Geometry - Saturation

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table Position | 0 mm |
| Table Position | H |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|--------------------|
| Position | R1.2 P20.6 H9.7 mm |
| Orientation | T > S-9.1 > C6.8 |
| Rotation | -1.70 deg |
| A >> P | 220 mm |
| R >> L | 220 mm |
| F >> H | 145 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 3090.0 ms |
| Concatenations | 1 |

Diff

| | |
|-----------------------|------------------------|
| Diffusion Mode | 4-Scan Trace |
| Diff. Directions | 4 |
| Diffusion Scheme | Monopolar |
| Diff. Weightings | 2 |
| b-value 1 | 0 s/mm ² |
| b-value 2 | 1000 s/mm ² |
| Averages 1 | 1 |
| Averages 2 | 1 |
| Invert Gray Scale | Off |
| Diff. Weighted Images | Off |
| Trace Weighted Images | On |
| Tensor | Off |
| FA Maps | Off |
| ADC Maps | On |
| Exponential ADC Maps | Off |
| b-value >= | 0 s/mm ² |
| ADC Noise Threshold | 50 |
| Noise Masking | Off |
| Calculated Image | Off |

Sequence - Part 1

| | |
|---------------|-----------|
| Sequence Name | resolve |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Bandwidth | 723 Hz/Px |
| Echo Spacing | 0.34 ms |
| Optimization | Min. TE |
| EPI Factor | 96 |

Sequence - Part 2

| | |
|--------------------|----|
| Introduction | On |
| Reacquisition Mode | On |

Sequence - Assistant

| | |
|---------------|---------|
| SAR Assistant | Off |
| Optimization | Min. TE |

\\User\Head\Epilepsy\Isola_xa61_Brain_ms\T1_3D sag Gd *

TA: 5:22 min Coil Selection: Auto Voxel Size: 0.5×0.5×0.5 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|-----------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 50 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 352 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 0.0 % |
| FOV Read | 256 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.50 mm |
| TR | 2320.0 ms |
| TE | 3.25 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-----------------------|
| TR | 2320.0 ms |
| TE | 3.25 ms |
| Magn. Preparation | Non-sel. IR |
| TI | 1170 ms |
| Flip Angle | 9 deg |
| Fat-Water Contrast | Fast Water Excitation |
| Dark Blood | Off |
| Contrasts | 1 |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |
| Reordering | Linear |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 256 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.50 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Slice Resolution | 50 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 24 |
| Acceleration Factor 3D | 1 |
| Phase Partial Fourier | Off |
| Slice Partial Fourier | Off |
| Asymmetric Echo | Allowed |
| Elliptical Scanning | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|-------------|
| Slab Group | 1 |
| Slabs | 1 |
| Distance Factor | 50 % |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slices per Slab | 352 |
| Phase Oversampling | 0 % |
| Slice Oversampling | 0.0 % |
| FOV Read | 256 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 0.50 mm |
| TR | 2320.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Ascending |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-----------|
| Slab Group | 1 |
| Position | Isocenter |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |

Geometry - AutoAlign

| | |
|---------------------|-----------|
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| H | 0.0 mm |
| Initial Orientation | Sagittal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Tim Planning Suite**

| | |
|-------------------|------|
| Set-n-Go Protocol | Off |
| Table Position | 0 mm |
| Table Position | H |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | F >> H |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-----------|
| Position | Isocenter |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 256 mm |
| F >> H | 256 mm |
| R >> L | 176 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 2320.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|-----------------------|
| Fat-Water Contrast | Fast Water Excitation |
| Magn. Preparation | Non-sel. IR |
| TI | 1170 ms |
| Dark Blood | Off |
| FOV Read | 256 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 100 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Inline - MapIt

| | |
|----------------------|-----------|
| MapIt | None |
| Flip Angle | 9 deg |
| Measurements | 1 |
| Contrasts | 1 |
| TE | 3.25 ms |
| TR | 2320.0 ms |
| Save Original Images | On |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | tfl |
| Dimension | 3D |
| Excitation | Non-sel. |
| RF Pulse Type | Normal |
| Gradient Mode | Whisper |
| Flow Compensation | None |
| Reordering | Linear |
| Bandwidth | 130 Hz/Px |
| Echo Spacing | 11.96 ms |
| Asymmetric Echo | Allowed |
| Turbo Factor | 176 |

Sequence - Part 2

| | |
|-------------------------|------|
| Introduction | Off |
| RF Spoiling | On |
| Incr. Gradient Spoiling | Off |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
|---------------|-----|

\\User\Head\Epilepsy\sola_xa61_Brain_ms\localizer Spine HASTE TOP *

TA: 14 sec Coil Selection: Auto Voxel Size: 1.6×1.6×6.0 mm³ Acc:: None Rel. SNR: 1.00 | Substep: 1/2**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | Off |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Contrast - Common

| | |
|----------------|-----------|
| Reconstruction | Magnitude |
|----------------|-----------|

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 400 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 6.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | 1.00 |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 4 |
| Distance Factor | 100 % |
| Position | R7.1 P0.0 F167.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Slices | 4 |
| Distance Factor | 100 % |
| Position | R7.1 P0.0 F167.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 400 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 6.0 mm |
| TR | 1500.0 ms |
| TE | 102.00 ms |
| Averages | 1 |
| Concatenations | 7 |
| AutoAlign | --- |

Resolution - Acceleration

| | |
|-----------------------|------|
| Acceleration Mode | None |
| Deep Resolve | Off |
| Phase Partial Fourier | 5/8 |

Resolution - Filter

| | |
|-----------------------|-----|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Off |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 4 |
| Distance Factor | 100 % |
| Position | R7.1 P0.0 F167.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Slices | 4 |
| Distance Factor | 100 % |
| Position | R7.1 P0.0 F167.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 400 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 6.0 mm |
| TR | 1500.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 7 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1500.0 ms |
| TE | 102.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle Mode | Constant |
| Flip Angle 1 | 150 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R7.1 P0.0 F167.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Position | R7.1 P0.0 F167.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R7.1 P0.0 F167.2 |
| R | 7.1 mm |
| P | 0.0 mm |
| F | 167.2 mm |
| Initial Orientation | Sagittal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 171 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|----------|-----------|
| Position | Isocenter |
|----------|-----------|

System - Adjust Volume

| | |
|-------------|-------------|
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1500.0 ms |
| Concatenations | 7 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 400 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 100 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 7 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |

Inline - Composing

| |
|--------------------|
| Series Description |
|--------------------|

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Normal |
| Flow Compensation | None |
| Bandwidth | 399 Hz/Px |
| Echo Spacing | 4.86 ms |
| Turbo Factor | 256 |

Sequence - Part 2

| | |
|-------------------|------|
| Introduction | On |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_ms\localizer Spine HASTE TOP *

TA: 14 sec Coil Selection: Auto Voxel Size: 1.6×1.6×6.0 mm³ Acc:: None Rel. SNR: 1.00 | Substep: 2/2**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | Off |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Contrast - Common

| | |
|----------------|-----------|
| Reconstruction | Magnitude |
|----------------|-----------|

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 400 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 6.0 mm |
| Base Resolution | 256 |
| Phase Resolution | 100 % |
| Interpolation | 1.00 |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 4 |
| Distance Factor | 100 % |
| Position | R7.1 P0.0 F317.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Slices | 4 |
| Distance Factor | 100 % |
| Position | R7.1 P0.0 F317.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 400 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 6.0 mm |
| TR | 1500.0 ms |
| TE | 102.00 ms |
| Averages | 1 |
| Concatenations | 7 |
| AutoAlign | --- |

Resolution - Acceleration

| | |
|-----------------------|------|
| Acceleration Mode | None |
| Deep Resolve | Off |
| Phase Partial Fourier | 5/8 |

Resolution - Filter

| | |
|-----------------------|-----|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Off |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 4 |
| Distance Factor | 100 % |
| Position | R7.1 P0.0 F317.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Slices | 4 |
| Distance Factor | 100 % |
| Position | R7.1 P0.0 F317.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 400 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 6.0 mm |
| TR | 1500.0 ms |
| Multi-Slice Mode | Single Shot |
| Series | Interleaved |
| Concatenations | 7 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 1500.0 ms |
| TE | 102.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle Mode | Constant |
| Flip Angle 1 | 150 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R7.1 P0.0 F317.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Slice Group | 2 |
| Position | R7.1 P0.0 F317.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R7.1 P0.0 F167.2 |
| R | 7.1 mm |
| P | 0.0 mm |
| F | 167.2 mm |
| Initial Orientation | Sagittal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|------|
| Special Saturation | None |
|--------------------|------|

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 321 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|----------|-----------|
| Position | Isocenter |
|----------|-----------|

System - Adjust Volume

| | |
|-------------|-------------|
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 1500.0 ms |
| Concatenations | 7 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 400 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 100 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 7 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |

Inline - Composing

| |
|--------------------|
| Series Description |
|--------------------|

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | h |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Normal |
| Flow Compensation | None |
| Bandwidth | 399 Hz/Px |
| Echo Spacing | 4.86 ms |
| Turbo Factor | 256 |

Sequence - Part 2

| | |
|-------------------|------|
| Introduction | On |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_tse_sag_I-II *

TA: 2:18 min Coil Selection: Auto Voxel Size: 0.4×0.4×3.5 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 1/2**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| Base Resolution | 384 |
| Phase Resolution | 80 % |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|------------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Self-calibration |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |

Routine

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 15 % |
| Position | R12.3 P29.0 F190.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| TR | 3500.0 ms |
| TE | 88.00 ms |
| Averages | 2 |
| Concatenations | 1 |
| AutoAlign | --- |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 15 % |
| Position | R12.3 P29.0 F190.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| TR | 3500.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 3500.0 ms |
| TE | 88.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 150 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Geometry - AutoAlign

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Position | R12.3 P29.0 F190.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| AutoAlign | --- |
| Initial Position | R12.3 P29.0 F190.2 |
| R | 12.3 mm |
| P | 29.0 mm |
| F | 190.2 mm |
| Initial Orientation | Sagittal |
| Initial Rotation | 90.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|---------------------|
| Saturation Region | 1 |
| Thickness | 80.00 mm |
| Position | R15.5 A38.9 F6.6 mm |
| Orientation | C > T-9.6 > S-0.4 |
| Shape | Standard |
| Special Saturation | None |

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 190 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Tune up |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-------------|
| Position | Isocenter |
| Orientation | Transversal |
| Rotation | 0.00 deg |
| A >> P | 263 mm |
| R >> L | 350 mm |
| F >> H | 350 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 3500.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 80 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rr |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Normal |
| Flow Compensation | Read |
| Bandwidth | 191 Hz/Px |
| Echo Spacing | 9.74 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 17 |
| Echo Trains per Slice | 19 |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| Fast Mode | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | On |
| Motion Correction | None |

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 125 deg |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_tse_sag_I-II *

TA: 2:18 min Coil Selection: Auto Voxel Size: 0.8×0.8×3.5 mm³ Acc.: 2 Rel. SNR: 1.00 | Substep: 2/2**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Resolution - Common

| | |
|------------------|---------|
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| Base Resolution | 384 |
| Phase Resolution | 80 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|------------------------|------------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Self-calibration |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 32 |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |

Routine

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 15 % |
| Position | R12.6 P29.1 F448.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| TR | 3500.0 ms |
| TE | 97.00 ms |
| Averages | 2 |
| Concatenations | 1 |
| AutoAlign | --- |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 15 % |
| Position | R12.6 P29.1 F448.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| TR | 3500.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 3500.0 ms |
| TE | 97.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 150 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|----------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Off |

Geometry - AutoAlign

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Position | R12.6 P29.1 F448.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 0.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------------|
| Saturation Region | 1 |
| Thickness | 80.00 mm |
| Position | R0.3 P42.8 F4.2 mm |
| Orientation | C > T5.6 > S0.3 |
| Shape | Standard |
| Special Saturation | None |

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 448 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-----------------------|
| Position | R12.6 P29.1 F448.2 mm |
| Orientation | Sagittal |
| Rotation | 90.00 deg |
| F >> H | 320 mm |
| A >> P | 320 mm |
| R >> L | 60 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 3500.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 80 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rr |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Normal |
| Flow Compensation | Read |
| Bandwidth | 191 Hz/Px |
| Echo Spacing | 9.74 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 17 |
| Echo Trains per Slice | 19 |

Sequence - Part 2

| | |
|--------------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| Fast Mode | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | On |
| Motion Correction | None |

Sequence - Assistant

| | |
|----------------|------------|
| SAR Assistant | Flip Angle |
| Min Flip Angle | 125 deg |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_tse_tra(5mm) *

TA: 1:50 min Coil Selection: Auto Voxel Size: 0.6×0.6×5.0 mm³ Acc:: None Rel. SNR: 1.00 | Substep: 1/5**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R5.5 P50.0 F98.7 mm |
| Orientation | T > C14.5 > S-1.8 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| TE | 74.00 ms |
| Averages | 2 |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 4800.0 ms |
| TE | 74.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 170 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Resolution - Common

| | |
|------------------|--------|
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 85 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|-----------------------|------|
| Acceleration Mode | None |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R5.5 P50.0 F98.7 mm |
| Orientation | T > C14.5 > S-1.8 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 0 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|---------------------|
| Slice Group | 1 |
| Position | R5.5 P50.0 F98.7 mm |
| Orientation | T > C14.5 > S-1.8 |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R5.5 P50.0 F98.7 |
| R | 5.5 mm |
| P | 50.0 mm |
| F | 98.7 mm |
| Initial Orientation | T > C |
| T > C | 14.50 |
| > S | -1.80 |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|---------------------|
| Saturation Region | 1 |
| Thickness | 70.00 mm |
| Position | L0.3 A46.5 F16.2 mm |
| Orientation | C > T-19.2 > S0.3 |
| Shape | Standard |
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|------------------------|-------|
| Set-n-Go Protocol | On |
| Table Position | 99 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | On |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|---------------------|
| Position | R5.5 P50.0 F98.7 mm |
| Orientation | T > C14.5 > S-1.8 |
| Rotation | 0.00 deg |
| A >> P | 150 mm |
| R >> L | 200 mm |
| F >> H | 103 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 4800.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Phase Resolution | 85 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rs |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | Slice |
| Bandwidth | 110 Hz/Px |
| Echo Spacing | 14.7 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 19 |
| Echo Trains per Slice | 11 |

Sequence - Part 2

| | |
|------------------|-----------|
| Introduction | Off |
| Phase Correction | Automatic |

Sequence - Part 2

| | |
|--------------------------|------|
| Compensate T2 Decay | Off |
| Fast Mode | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | Off |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_tse_tra(5mm) *

TA: 2:10 min Coil Selection: Auto Voxel Size: 0.6×0.6×5.0 mm³ Acc:: None Rel. SNR: 1.00 | Substep: 2/5**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R7.8 P85.9 F188.8 mm |
| Orientation | T > C13.6 > S-1.9 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 20 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| TE | 74.00 ms |
| Averages | 2 |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 4800.0 ms |
| TE | 74.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 170 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Resolution - Common

| | |
|------------------|--------|
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 85 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|-----------------------|------|
| Acceleration Mode | None |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R7.8 P85.9 F188.8 mm |
| Orientation | T > C13.6 > S-1.9 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 20 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|----------------------|
| Slice Group | 1 |
| Position | R7.8 P85.9 F188.8 mm |
| Orientation | T > C13.6 > S-1.9 |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 0.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|--------------------|
| Saturation Region | 1 |
| Thickness | 70.00 mm |
| Position | L0.2 A29.2 F7.0 mm |
| Orientation | C > T-13.4 > S0.3 |
| Shape | Standard |
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 189 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | On |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|----------------------|
| Position | R7.8 P85.9 F188.8 mm |
| Orientation | T > C13.6 > S-1.9 |
| Rotation | 0.00 deg |
| A >> P | 150 mm |
| R >> L | 200 mm |
| F >> H | 103 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 4800.0 ms |

Physio - Signal

| | |
|----------------|---|
| Concatenations | 1 |
|----------------|---|

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Phase Resolution | 85 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rs |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | Slice |
| Bandwidth | 110 Hz/Px |
| Echo Spacing | 14.7 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 19 |
| Echo Trains per Slice | 13 |

Sequence - Part 2

| | |
|---------------------|-----------|
| Introduction | Off |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| Fast Mode | Off |

Sequence - Part 2

| | |
|--------------------------|------|
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | Off |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_tse_tra(5mm) *

TA: 2:19 min Coil Selection: Auto Voxel Size: 0.6×0.6×5.0 mm³ Acc:: None Rel. SNR: 1.00 | Substep: 3/5

Properties

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|------------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R11.7 P100.2 F280.0 mm |
| Orientation | T > C3.0 > S-2.0 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 30 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| TE | 74.00 ms |
| Averages | 2 |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 4800.0 ms |
| TE | 74.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 170 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Resolution - Common

| | |
|------------------|--------|
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 85 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|-----------------------|------|
| Acceleration Mode | None |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|------------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R11.7 P100.2 F280.0 mm |
| Orientation | T > C3.0 > S-2.0 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 30 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|------------------------|
| Slice Group | 1 |
| Position | R11.7 P100.2 F280.0 mm |
| Orientation | T > C3.0 > S-2.0 |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 0.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|-------------------|
| Saturation Region | 1 |
| Thickness | 131.00 mm |
| Position | L0.0 A2.9 H0.0 mm |
| Orientation | C > S0.3 > T0.1 |
| Shape | Standard |
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 280 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | On |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|------------------------|
| Position | R11.7 P100.2 F280.0 mm |
| Orientation | T > C3.0 > S-2.0 |
| Rotation | 0.00 deg |
| A >> P | 150 mm |
| R >> L | 200 mm |
| F >> H | 103 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|------|
| 1st Signal/Mode | None |
|-----------------|------|

Physio - Signal

| | |
|----------------|-----------|
| TR | 4800.0 ms |
| Concatenations | 1 |

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Phase Resolution | 85 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rs |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | Slice |
| Bandwidth | 110 Hz/Px |
| Echo Spacing | 14.7 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 19 |
| Echo Trains per Slice | 14 |

Sequence - Part 2

| | |
|---------------------|-----------|
| Introduction | Off |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |

Sequence - Part 2

| | |
|--------------------------|------|
| Fast Mode | Off |
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | Off |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_tse_tra(5mm) *

TA: 1:12 min Coil Selection: Auto Voxel Size: 0.6×0.6×5.0 mm³ Acc:: None Rel. SNR: 1.00 | Substep: 4/5**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R15.5 P96.0 F371.5 mm |
| Orientation | T > C-4.5 > S-1.8 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 30 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| TE | 74.00 ms |
| Averages | 1 |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 4800.0 ms |
| TE | 74.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 170 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Resolution - Common

| | |
|------------------|--------|
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 85 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|-----------------------|------|
| Acceleration Mode | None |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R15.5 P96.0 F371.5 mm |
| Orientation | T > C-4.5 > S-1.8 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 30 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Position | R15.5 P96.0 F371.5 mm |
| Orientation | T > C-4.5 > S-1.8 |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 0.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|--------------------|
| Saturation Region | 1 |
| Thickness | 70.00 mm |
| Position | R1.1 P66.9 F9.9 mm |
| Orientation | C > T8.4 > S0.9 |
| Shape | Standard |
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 372 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | On |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-----------------------|
| Position | R15.5 P96.0 F371.5 mm |
| Orientation | T > C-4.5 > S-1.8 |
| Rotation | 0.00 deg |
| A >> P | 150 mm |
| R >> L | 200 mm |
| F >> H | 103 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 4800.0 ms |

Physio - Signal

| | |
|----------------|---|
| Concatenations | 1 |
|----------------|---|

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Phase Resolution | 85 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rs |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | Slice |
| Bandwidth | 110 Hz/Px |
| Echo Spacing | 14.7 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 19 |
| Echo Trains per Slice | 14 |

Sequence - Part 2

| | |
|---------------------|-----------|
| Introduction | Off |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| Fast Mode | Off |

Sequence - Part 2

| | |
|--------------------------|------|
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | Off |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_mslt2_tse_tra(5mm) *

TA: 2:19 min Coil Selection: Auto Voxel Size: 0.6×0.6×5.0 mm³ Acc:: None Rel. SNR: 1.00 | Substep: 5/5**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R20.4 P80.5 F466.8 mm |
| Orientation | T > C-4.9 > S-1.7 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 30 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| TE | 74.00 ms |
| Averages | 2 |
| Concatenations | 1 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 4800.0 ms |
| TE | 74.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 170 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Standard |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | Restore |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Resolution - Common

| | |
|------------------|--------|
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| Base Resolution | 320 |
| Phase Resolution | 85 % |
| Interpolation | Off |

Resolution - Acceleration

| | |
|-----------------------|------|
| Acceleration Mode | None |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | On |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 40 % |
| Position | R20.4 P80.5 F466.8 mm |
| Orientation | T > C-4.9 > S-1.7 |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 30 % |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Slice Thickness | 5.0 mm |
| TR | 4800.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 1 |

Geometry - AutoAlign

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Position | R20.4 P80.5 F466.8 mm |
| Orientation | T > C-4.9 > S-1.7 |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 0.0 mm |
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator

Geometry - Saturation

| | |
|--------------------|--------------------|
| Saturation Region | 1 |
| Thickness | 70.00 mm |
| Position | R0.8 P48.2 F4.8 mm |
| Orientation | C > T5.7 > S0.9 |
| Shape | Standard |
| Special Saturation | Parallel F/H |
| Gap | 10.00 mm |
| Thickness | 50.00 mm |

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 467 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | Off |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | On |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-----------------------|
| Position | R20.4 P80.5 F466.8 mm |
| Orientation | T > C-4.9 > S-1.7 |
| Rotation | 0.00 deg |
| A >> P | 150 mm |
| R >> L | 200 mm |
| F >> H | 103 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|-----------|
| 1st Signal/Mode | None |
| TR | 4800.0 ms |

Physio - Signal

| | |
|----------------|---|
| Concatenations | 1 |
|----------------|---|

Physio - Cardiac

| | |
|--------------------|----------|
| Fat-Water Contrast | Standard |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 200 mm |
| FOV Phase | 75.0 % |
| Phase Resolution | 85 % |
| Motion Correction | None |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 1 |

Inline - Subtraction

| | |
|----------------------|------|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Motion Correction | None |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|------------------|-----|
| Inline Composing | Off |
|------------------|-----|

Sequence - Part 1

| | |
|-----------------------|--------------|
| Sequence Name | tseR_rs |
| Dimension | 2D |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | Slice |
| Bandwidth | 110 Hz/Px |
| Echo Spacing | 14.7 ms |
| Free Echo Spacing | Off |
| Define | Turbo Factor |
| Turbo Factor | 19 |
| Echo Trains per Slice | 14 |

Sequence - Part 2

| | |
|---------------------|-----------|
| Introduction | Off |
| Phase Correction | Automatic |
| Compensate T2 Decay | Off |
| Fast Mode | Off |

Sequence - Part 2

| | |
|--------------------------|------|
| WARP | Off |
| Red. EC Sensitivity | Off |
| Acoustic noise reduction | Off |
| Reduce Motion Sens. | Off |
| Motion Correction | None |

Sequence - Assistant

| | |
|---------------|------|
| SAR Assistant | Off |
| Allowed Delay | 30 s |

\\User\Head\Epilepsy\sola_xa61_Brain_ms\T1 tse_dixon sag_I-II+C *

TA: 2:26 min Coil Selection: Auto Voxel Size: 0.5×0.5×3.5 mm³ Acc:: 2 Rel. SNR: 1.00 | Substep: 1/2**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 15 % |
| Position | R12.3 P29.0 F190.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 100 % |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| TR | 400.0 ms |
| TE | 12.00 ms |
| Averages | 1 |
| Concatenations | 2 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 400.0 ms |
| TE | 12.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 180 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Dixon |
| Fat Saturation | Weak |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Resolution - Common

| | |
|------------------|-----------|
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| Base Resolution | 320 |
| Phase Resolution | 80 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 27 |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |
| Asymmetric Echo | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 15 % |
| Position | R12.3 P29.0 F190.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| Phase Oversampling | 100 % |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| TR | 400.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 2 |

Geometry - AutoAlign

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Position | R12.3 P29.0 F190.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | A >> P |
| AutoAlign | --- |
| Initial Position | R12.3 P29.0 F190.2 |
| R | 12.3 mm |
| P | 29.0 mm |
| F | 190.2 mm |

Geometry - AutoAlign

| | |
|---------------------|----------|
| Initial Orientation | Sagittal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|---------------------|
| Saturation Region | 1 |
| Thickness | 80.00 mm |
| Position | R15.5 A38.9 F6.6 mm |
| Orientation | C > T-9.6 > S-0.4 |
| Shape | Standard |
| Special Saturation | None |

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 190 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-----------------------|
| Position | R12.3 P29.0 F190.2 mm |
| Orientation | Sagittal |
| Rotation | 0.00 deg |
| A >> P | 320 mm |
| F >> H | 320 mm |
| R >> L | 60 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|----------|
| 1st Signal/Mode | None |
| TR | 400.0 ms |
| Concatenations | 2 |

Physio - Cardiac

| | |
|--------------------|-----------|
| Fat-Water Contrast | Dixon |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 80 % |
| Trajectory | Cartesian |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 2 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | tse |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 306 Hz/Px |
| Echo Spacing | 12.18 ms |

Sequence - Part 1

| | |
|-----------------------|--------------|
| Asymmetric Echo | Off |
| Define | Turbo Factor |
| Turbo Factor | 3 |
| Echo Trains per Slice | 90 |

Sequence - Part 2

| | |
|---------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Red. EC Sensitivity | Off |
| Reduce Motion Sens. | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
| Allowed Delay | 0 s |

\\User\Head\Epilepsy\sola_xa61_Brain_ms\T1 tse_dixon sag_I-II+C *

TA: 2:26 min Coil Selection: Auto Voxel Size: 0.5×0.5×3.5 mm³ Acc:: 2 Rel. SNR: 1.00 | Substep: 2/2**Properties**

| | |
|---|--------------------|
| Start measurement without further preparation | On |
| Wait for User to Start | Off |
| Start measurements | Single Measurement |
| Prio Recon | Off |
| Auto Open Inline Display | Off |
| Auto Close Inline Display | Off |
| Load Images to MR View&GO | On |
| Auto Store Images | On |
| Disable auto transfer to PACS | Off |
| Load Images to Stamp Segments | On |
| Load Images to Graphic Segments | On |
| Graphic segment | Default |
| Inline Movie | Off |

Routine

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 15 % |
| Position | R12.6 P29.1 F448.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| TR | 400.0 ms |
| TE | 12.00 ms |
| Averages | 1 |
| Concatenations | 2 |
| AutoAlign | --- |

Contrast - Common

| | |
|--------------------|-----------|
| TR | 400.0 ms |
| TE | 12.00 ms |
| TD | 0.00 ms |
| MTC | Off |
| Magn. Preparation | None |
| Flip Angle 1 | 180 deg |
| Flip Angle 2 | 90 deg |
| Fat-Water Contrast | Dixon |
| Fat Saturation | Weak |
| Dark Blood | Off |
| Contrasts | 1 |
| Wrap-up Magn. | None |
| Reconstruction | Magnitude |

Contrast - Dynamic

| | |
|-----------------|------------------|
| Dynamic Mode | Standard |
| Measurements | 1 |
| Multiple Series | Each Measurement |

Resolution - Common

| | |
|------------------|-----------|
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| Base Resolution | 320 |
| Phase Resolution | 80 % |
| Trajectory | Cartesian |
| Interpolation | On |

Resolution - Acceleration

| | |
|------------------------|------------|
| Acceleration Mode | GRAPPA |
| Reference Scans | Integrated |
| Acceleration Factor PE | 2 |
| Reference Lines PE | 27 |
| Deep Resolve | Off |
| Phase Partial Fourier | Off |
| Asymmetric Echo | Off |

Resolution - Filter

| | |
|-----------------------|---------|
| Raw Filter | Off |
| Elliptical Filter | Off |
| Distortion Correction | 2D |
| Normalize | Prescan |
| Image Filter | Off |

Geometry - Common

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Slices | 15 |
| Distance Factor | 15 % |
| Position | R12.6 P29.1 F448.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| Phase Oversampling | 100 % |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Slice Thickness | 3.5 mm |
| TR | 400.0 ms |
| Multi-Slice Mode | Interleaved |
| Series | Interleaved |
| Concatenations | 2 |

Geometry - AutoAlign

| | |
|---------------------|-----------------------|
| Slice Group | 1 |
| Position | R12.6 P29.1 F448.2 mm |
| Orientation | Sagittal |
| Phase Encoding Dir. | H >> F |
| AutoAlign | --- |
| Initial Position | Isocenter |
| L | 0.0 mm |
| P | 0.0 mm |
| F | 0.0 mm |

Geometry - AutoAlign

| | |
|---------------------|-------------|
| Initial Orientation | Transversal |
| Initial Rotation | 0.00 deg |

Geometry - Navigator**Geometry - Saturation**

| | |
|--------------------|--------------------|
| Saturation Region | 1 |
| Thickness | 80.00 mm |
| Position | R0.3 P42.8 F4.2 mm |
| Orientation | C > T5.6 > S0.3 |
| Shape | Standard |
| Special Saturation | None |

Geometry - Tim Planning Suite

| | |
|------------------------|--------|
| Set-n-Go Protocol | On |
| Table Position | 448 mm |
| Table Position | F |
| Disable Voice Commands | Off |
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

System - Miscellaneous

| | |
|---------------------|------------------|
| Coil Selection | Auto Coil Select |
| Radial Sorting | Off |
| MSMA | S - C - T |
| Sagittal | R >> L |
| Coronal | A >> P |
| Transversal | H >> F |
| Coil Combination | Adaptive Combine |
| Matrix Optimization | Off |
| Coil Focus | Flat |

System - Adjustments

| | |
|-----------------------|----------|
| Adjustment Strategy | Standard |
| B0 Shim | Standard |
| CoilShim | Off |
| Adjustment Tolerance | Auto |
| Adjust with Body Coil | Off |
| Confirm Frequency | Never |
| Assume Silicone | Off |

System - Adjust Volume

| | |
|-------------|-----------------------|
| Position | R12.6 P29.1 F448.2 mm |
| Orientation | Sagittal |
| Rotation | 90.00 deg |
| F >> H | 320 mm |
| A >> P | 320 mm |
| R >> L | 60 mm |
| Reset | Off |

System - Tx/Rx

| | |
|---------------------|---------------|
| Frequency 1H | 63.665012 MHz |
| ? Ref. Amplitude 1H | 0.000 V |
| Reset | Off |
| Image Scaling | 1.000 |

Physio - Signal

| | |
|-----------------|----------|
| 1st Signal/Mode | None |
| TR | 400.0 ms |
| Concatenations | 2 |

Physio - Cardiac

| | |
|--------------------|-----------|
| Fat-Water Contrast | Dixon |
| Magn. Preparation | None |
| Dark Blood | Off |
| FOV Read | 320 mm |
| FOV Phase | 100.0 % |
| Phase Resolution | 80 % |
| Trajectory | Cartesian |

Physio - PACE

| | |
|----------------|-----|
| Resp. Control | Off |
| Concatenations | 2 |

Inline - Subtraction

| | |
|----------------------|-----|
| Subtract | Off |
| Measurements | 1 |
| StdDev | Off |
| Save Original Images | On |

Inline - MIP

| | |
|----------------------|-----|
| MIP Sag | Off |
| MIP Cor | Off |
| MIP Tra | Off |
| MIP Time | Off |
| Radial MIP | Off |
| Save Original Images | On |
| MPR Sag | Off |
| MPR Cor | Off |
| MPR Tra | Off |

Inline - Composing

| | |
|---------------------|-------|
| Inline Composing | On |
| Normalize | Off |
| Save non-normalized | On |
| Composing Function | Spine |
| Series Description | |

Sequence - Part 1

| | |
|-------------------|-----------|
| Sequence Name | tse |
| RF Pulse Type | Normal |
| Gradient Mode | Fast |
| Flow Compensation | None |
| Bandwidth | 306 Hz/Px |
| Echo Spacing | 12.18 ms |

Sequence - Part 1

| | |
|-----------------------|--------------|
| Asymmetric Echo | Off |
| Define | Turbo Factor |
| Turbo Factor | 3 |
| Echo Trains per Slice | 90 |

Sequence - Part 2

| | |
|---------------------|-----------|
| Introduction | On |
| Phase Correction | Automatic |
| Red. EC Sensitivity | Off |
| Reduce Motion Sens. | Off |

Sequence - Assistant

| | |
|---------------|-----|
| SAR Assistant | Off |
| Allowed Delay | 0 s |